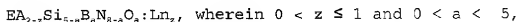


IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An illumination system, comprising a radiation source and a fluorescent material comprising at least one phosphor capable of absorbing a part of light emitted by the radiation source and emitting visible light of wavelength different from that of the absorbed light; wherein said at least one phosphor is an oxido-nitrido-silicate of general formula



comprising at least one element EA selected from the group consisting of Mg, Ca, ~~Sr~~, Ba and Zn and at least one element B selected from the group consisting of ~~Al~~, Ga and In, and being activated by a lanthanide selected from the group consisting of cerium, europium, terbium, praseodymium and mixtures thereof.

2. (Currently Amended) ~~An~~ The illumination system according to claim 1,

wherein the fluorescent material comprises a red phosphor having a general formula of $EA_{2-z}Si_{5-2a}BaN_{8-2a}O_4:Ln_z$, wherein $0 < z \leq 1$ and $0 < a < 5$ and a green or yellow phosphor.

3. (Currently Amended) ~~An~~ The illumination system according to claim 1,

wherein a green or yellow phosphor is selected from the group of

$MS:Eu,Ce,Cu$ comprising at least one element selected from the group $M = Mg, Ca, Sr, \text{ and } Zn$;

$MN_2S_4:Eu,Ce$ comprising of at least one element selected from the group $M = Mg, Ca, Sr, \text{ and } Zn$ at least one element selected from the group $N = Al, Ga, In, Y, La, Gd$,

$(Re_{1-r}Sm_r)_3(Al_{1-s}Ga_s)_2O_{12}:Ce$, where $0 \leq r < 1$ and $0 \leq s \leq 1$ and Re selected from Y, Lu, Sc, La and Gd

and $(Ba_{1-x-y-z}Sr_xCa_y)_2SiO_4:Eu_z$, wherein $0 \leq x \leq 1$, $0 \leq y \leq 1$ and $0 < z < 1$.

4. (Withdrawn) An illumination system according to claim 1,
wherein the radiation source is a UV- or blue-emitting
LED.

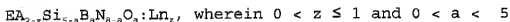
5. (Currently Amended) ~~An~~ The illumination system according to
claim 1,
wherein said radiation source comprises a nitride
compound semiconductor represented by the general formula
 $\text{In}_i\text{Ga}_j\text{Al}_k\text{N}$, where $0 \leq i \leq 1$, $0 \leq j \leq 1$, $0 \leq k \leq 1$ and $i+j+k=1$.

6. (Withdrawn) An illumination system according to claim 1,
wherein the system is a lamp.

7. (Currently Amended) ~~An~~ The illumination system according to
claim 1,
wherein the system is a traffic sign.

8. (Currently Amended) A phosphor capable of absorbing a part
of light emitted by the radiation source and emitting visible light
of wavelength different from that of the absorbed light; wherein

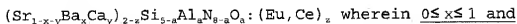
said at least one phosphor is an oxido-nitrido-silicate of general formula



comprising at least one element EA selected from the group consisting of Mg, Ca, Sr, Ba and Zn and at least one element B selected from the group consisting of Al, Ga and In, and being activated with a lanthanide selected from the group consisting of cerium, europium, terbium and mixtures thereof.

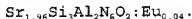
9. (Currently Amended) A The phosphor according to claim 8, of general formula $(Sr_{1-x}EA_x)_{2-z}Si_{5-a}(Al_{1-b}B_b)_3N_{8-a}O_3:(Eu,Ce)_z$, wherein $0 \leq x \leq 1$ and $0 \leq b \leq 1$.

10. (Currently Amended) A The phosphor according to claim 8, of general formula



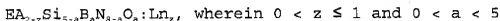
11. (Currently Amended) A phosphor ~~according to claim 8~~
of capable of absorbing a part of light emitted by the

radiation source and emitting light of wavelength different from that of the absorbed light; wherein said at least one phosphor is of general formula



12. (Currently Amended) ~~A~~-The phosphor according to claim 8, wherein silicon is substituted by germanium.

13. (Currently Amended) An illumination system comprising a radiation source and a fluorescent material comprising at least one phosphor capable of absorbing a part of light emitted by the radiation source and emitting visible light of wavelength different from that of the absorbed light; wherein said at least one phosphor is an oxido-nitrido-silicate of general formula



comprising at least one element EA selected from a group of Mg and Zn and at least one element B selected from a group of Ga and In, and being activated by a lanthanide selected from a group of cerium, terbium, praseodymium and mixtures thereof.

Claim 14 (Canceled)

15. (Previously Presented) The illumination system of claim 13, wherein the fluorescent material comprises a red phosphor having a general formula of $EA_{2-z}Si_{5-a}B_aN_{8-3}O_4:Ln_z$, wherein $0 < z \leq 1$ and $0 < a < 5$ and a green or yellow phosphor.

16. (Previously Presented) The illumination system of claim 15, wherein the green or yellow phosphor is selected from the group of

$MS:Eu,Ce,Cu$ comprising at least one element selected from a group $M = Mg, Ca, Sr, \text{ and } Zn$;

$MN_2S_4:Eu,Ce$ comprising of at least one element selected from a group $M = Mg, Ca, Sr, \text{ and } Zn$ at least one element selected from a group $N = Al, Ga, In, Y, La, Gd$,

$(Re_{1-r}Sm_r)_3(Al_{1-s}Ga_s)_2O_{12}:Ce$, where $0 \leq r < 1$ and $0 \leq s \leq 1$ and Re selected from Y, Lu, Sc, La and Gd ,

and $(Ba_{1-x-y-z}Sr_xCa_y)_2SiO_4:Eu_z$, wherein $0 \leq x \leq 1$, $0 \leq y \leq 1$ and $0 < z < 1$.

17. (Previously Presented) The illumination system of claim 13, wherein the radiation source comprises a nitride compound semiconductor represented by the general formula $\text{In}_i\text{Ga}_j\text{Al}_k\text{N}$, where $0 \leq i \leq 1$, $0 \leq j \leq 1$, $0 \leq k \leq 1$ and $i+j+k=1$.

18. (Previously Presented) The illumination system of claim 13, wherein the system is a traffic sign.